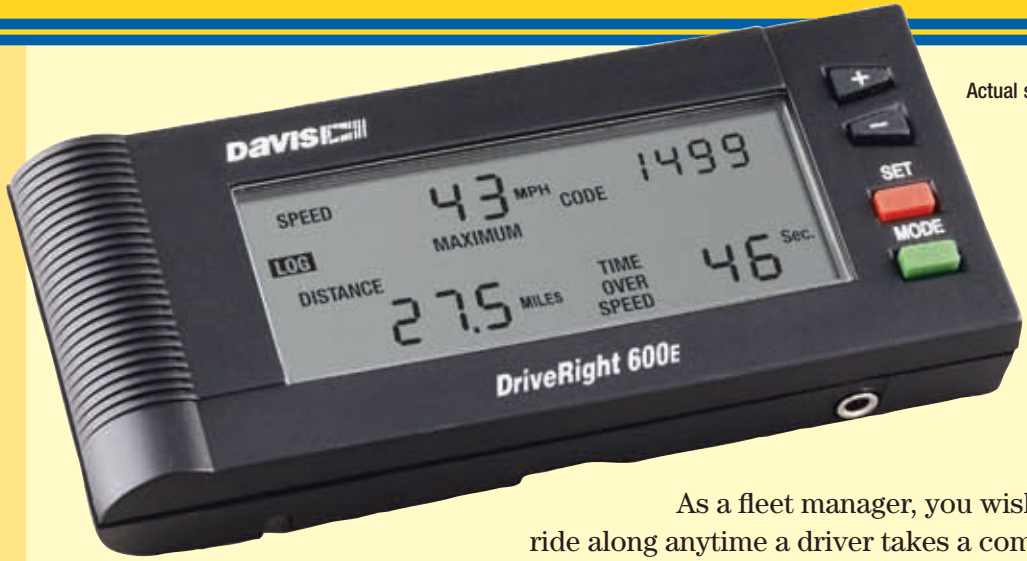
DriveRight®

Innovative Fleet Management Solutions / Autumn 2006

DAVIS

What's New?

1. Lower Prices!
2. Wireless Download
3. Improved SmartCard Design
4. DriveRight 600E



Actual size

As a fleet manager, you wish you could ride along anytime a driver takes a company vehicle out of the garage and onto the streets and highways. While you can't sit in the passenger seat every time, you can actively oversee each driver's safety and vehicle performance with DriveRight® and CarChip®.

The DriveRight® System

The DriveRight System offers a fleet management tool for every vehicle in your fleet, from locally-driven passenger vehicles to wide-ranging trucks. Anchored by powerful Fleet Management Software, the system's options and flexibility allow you to customize your fleet management solutions.

Fleet Management Software gives you the information you need to analyze, share, and store driving data. Works with both DriveRight 600E and CarChip Fleet data loggers. (Pages 10–13.)

The **DriveRight 600E** on-board console with built-in data logger tracks and displays trip data for up to 600 trips. Four installation options allow you to use it in any fleet vehicle, large or small. Our newest and simplest installation plugs right into the OBDII port. (Pages 4–5.)

GPS Module collects route information along with speed and the status of digital inputs, and adds critical location details to the DriveRight accident log. (Page 6.)

Download Options make transferring data to your PC quick and easy. Choose:

- **NEW! Wireless Download System** automatically finds nearby vehicles and downloads their data without driver involvement. (Page 7.)
- **SmartCard System** to simplify administrative tasks, automatically identify drivers, and download data. (Page 8.)
- **Download Cable** included with the software to download directly from the console. (Page 10.)

CarChip® Fleet

CarChip Fleet provides details on engine performance and diagnostics as well as driver and trip information. Uses the same Fleet Management Software as DriveRight 600E, so you can mix and match to suit your needs.

The **CarChip Fleet** data logger plugs quickly and easily into the vehicle's OBDII port. **CarChip Fleet with Alarm** includes an audible alarm to warn drivers whenever they exceed a company-set limit. (Page 9.)

Everything a Fleet Manager Needs

Security

- Know which driver operated the vehicle and when (with DriveRight 600E).
- Prevent tampering with data or limits.
- See where your vehicle has been (with DriveRight 600E and GPS Module).
- Authorize specific drivers to start specific vehicles (with DriveRight 600E, SmartCard, and Starter Interrupter Kit).
- Log engine performance for optimum repair and maintenance (with CarChip Fleet or CarChip Fleet with Alarm).

CarChip Fleet offers powerful data logging in a tiny, inconspicuous package.

Safety

- Set speed, acceleration, and deceleration limits and know when the driver exceeded them.
- Promote accident prevention; log precise driving details when an accident occurs.
- Provide audible alarm to warn driver when limits are exceeded.
- Self-monitor driving performance (with DriveRight 600E's on-board console).
- Verify seatbelt and headlamp use (with DriveRight 600E).

The DriveRight 600E on-board console provides instant feedback to drivers.

Savings

- Lower risk of work-related accidents.
- Reduce wear and tear on vehicle through safer braking and conservative driving.
- Increase vehicle fuel efficiency by discouraging rapid acceleration and speeding.
- Log engine performance and troubleshoot engine repairs (with CarChip Fleet).

Simplicity

- Generate useful, adaptable reports with Fleet Management Software to analyze driver trends and events.
- Customize tracking of drivers and vehicles.
- Download data easily to computer; five download options to meet varied needs.
- Store and manage data with ease.
- Choose your database platform with Open Database Connectivity.
- Share, send or post data with built-in e-mail utility.

- **Each year, about 20% of all fleet drivers are involved in an on-the-job vehicle accident, compared to the 6% of workers in other occupations who suffer an on-the-job injury or illness. [1]**
- **Highway accidents are the leading cause of on-the-job fatalities, accounting for almost 25% of the total. [2]**
- **Installation of onboard event data recorders can reduce the number of accidents 10 to 30%, lower their severity, and decrease their costs 40 to 60%. [3]**

1. National Association of Fleet Administrators, as quoted in "Rewards of Creating a Fleet Safety Culture," American Society of Safety Engineers, August 2001.

2. Census of Fatal Occupational Injuries Summary, Bureau of Labor Statistics, U.S. Dept. of Labor, September 2002.

3. Event Data Recorders: Summary of Finding by the NHTSA EDR Working Group, National Highway Traffic Safety Administration, August 2001.

Here's What You Get:

Current Readings

- Speed (in km/h or MPH); max speed
- Acceleration and deceleration
- Distance traveled
- Odometer
- Trip start and end times

Trip Information

- Track, store and display 600 trips
- Select trip type: business, personal, commute, other
- Average and high trip speed
- Time over speed limit
- Number of times speed and deceleration limits were exceeded

Plus

- Alarms for speed, acceleration and deceleration
- Password protection for data and settings
- Tamper indicator
- No loss of data with power interruption
- Supports two digital inputs to record brake lights, headlights, power take off (PTO), or seatbelt use

DriveRight 600E: The Industry Leader Gets Even Better

Using advanced micro-processor technology, DriveRight 600E constantly monitors your vehicle's speed, sending data to an interactive, on-dash LCD console. Drivers can see their driving performance in real time—like having an on-board driving coach.

DriveRight 600E not only records and monitors how and when vehicles are used, but also by whom. With enough memory for 600 trips and 10 accident logs, it also allows speed, acceleration, and deceleration limits to be set, and shows how often those limits were exceeded. It even provides an alarm to alert drivers whenever they exceed a limit.

In addition, DriveRight 600E incorporates these sophisticated features most requested by fleet managers:

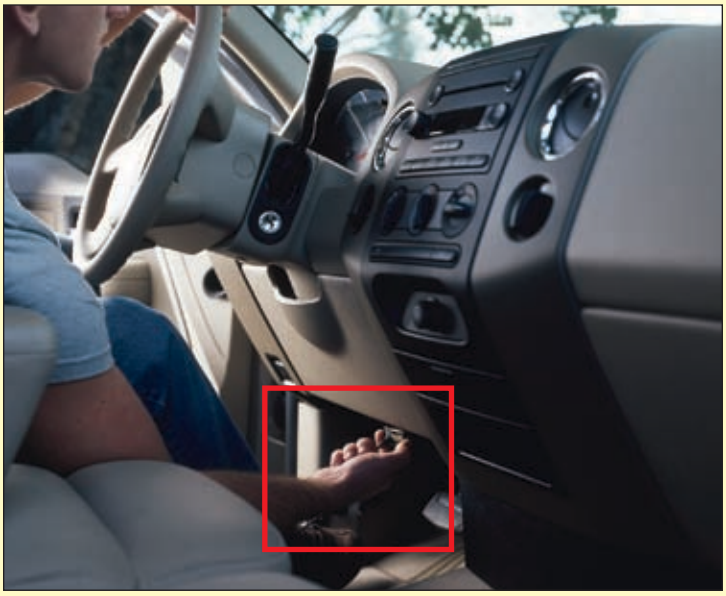
- Automatically creates an accident log whenever there is a sudden deceleration. Using the Fleet Management Software, you'll be able to see each of the last 20 seconds of speed before and 20 seconds after the event.
- Even when accident logs are not generated, the console automatically stores each of the last 20 seconds of speed for each of the last 20 trips.
- Allows the monitoring of brake lights, seatbelts, power take off (PTO) switch, headlights, or other features through the use of two digital inputs.
- Protects data and settings with strong security features—even if power is interrupted or removed.
- Monitors multiple drivers through the use of four-digit driver ID codes. Or, use the ID to track destinations instead of drivers.
- Prevents unauthorized changes to data or threshold limits with the use of special security ID codes.
- Creates a "tamper log" each time the display is disconnected or an unauthorized person attempts to change data or limits.

Easy-to-read console rides along on every trip.

Small enough to fit into a pocket, the console can be brought into the office for downloading. Or, choose one of the download options shown on page 7, 8, and 14.

DriveRight 600E OBD

Our newest and simplest installation is perfect for vehicles with an OBDII port. Simply plug the connector into the OBDII port, then connect to the DriveRight console.



DriveRight 600E OBD plugs into the OBDII port (found in model-years 1996 or later) located near the driver's seat.

DriveRight 600E VSS

For vehicles with electronic speed sensors (VSS), including most 1992 and later model-years, and some earlier model-years with cruise control.

DriveRight 600E GD

General-duty model for passenger cars and light-duty trucks. Sensor mounts next to vehicle's driveshaft or CV joint. (Not shown.)

DriveRight 600E HD

Heavy-duty model for large trucks, busses, and off-road vehicles. Sensor mounts next to the vehicle's driveshaft or CV joint. Comes with stainless-steel magnet mounting hardware and extra-long cable. (Not shown.)

DriveRight 600E VSS taps into the vehicle speed sensor signal.

8126OBD DriveRight 600E OBD Lower Price!
8126VSS DriveRight 600E VSS
8126GD DriveRight 600E General Duty
8126HD DriveRight 600E Heavy Duty

All models include the hardware needed to install the sensors along with options for mounting the console. (VSS model shown.)

Which installation is right for my vehicle?

Cars, Light-Duty Trucks & Vans

	OBD	VSS	GD/HD
1996 – Present (USA & Canada)			
1996 – Present (Europe & Elsewhere)			
1992 – 1995			
1991 or Before			

Heavy-Duty Trucks & Busses

	OBD	VSS	GD/HD
1992 – Present			
1991 or Before			

Tractors & Other Moving Vehicles

	OBD	VSS	GD/HD
All years			

Legend

Very likely to certain | Likely | Possible | Not available

Notes:

OBD requires a vehicle with an operational OBDII port. This port was made mandatory in all passenger and light-duty vehicles sold in the USA starting in 1996. The port can be found in some vehicles sold outside of the USA and Canada, but there is no consistent pattern of which makes and models will work, and which won't.

VSS requires a vehicle that produces a pulsing wire that varies with speed. This is a signal commonly used by a vehicle's cruise control, thus vehicles which have cruise control as an option are likely to have this pulsed wire. The location of the wire varies from vehicle to vehicle and from year to year.

GD and HD consist of a reed-switch sensor and a magnet that is mounted on a driveshaft or other spinning point on a vehicle. The reed switch counts the revolutions of the magnet, and reports that pulse to the console. The installer calibrates each console to match the frequency of the revolutions to the vehicle's speed.

Customizable GPS Module

- For maximum GPS location data, sample as frequently as once every second.
- For maximum time between downloads, sample as infrequently as once every 15 minutes.

Logs Hours of Location Data

- At 15-minute intervals, download every 650 driving-hours.
- Each interval point includes the status of digital inputs as well as speed and direction.
- Location accuracy as close as 10 feet (3 m).

Use with Microsoft MapPoint or Streets & Trips

- Show trip route and the location of each stop.
- Determine driver safety performance for specific roadways.
- Assess the severity of an incident based on the vehicle's location.

GPS Module Adds Important Details to Vehicle Record

Adding our optional GPS module to your DriveRight 600E brings even more driving details into focus.

View GPS data on DriveRight console.

- See the current GPS position and heading on the console's latitude and longitude screens.
- GPS data is synchronized with speed and other key information collected by the console.

Enhances safety reporting in Fleet Management Software.

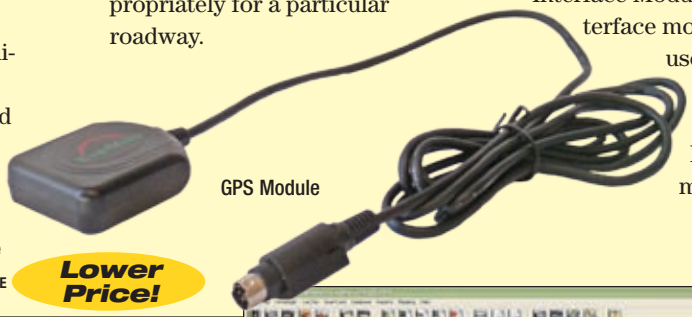
- Adds latitude and longitude to the Accident Report.
- When brake lights are monitored using digital inputs, allows you to see when and where the brakes were applied.

Use with third-party mapping programs.

- Export data to a third-party mapping program such as Microsoft MapPoint or Streets & Trips.
- Create a map showing the route taken as well as each start and stop.
- Plot the high speed samples and quickly judge whether or not a driver was driving appropriately for a particular roadway.

Easy to install and use.

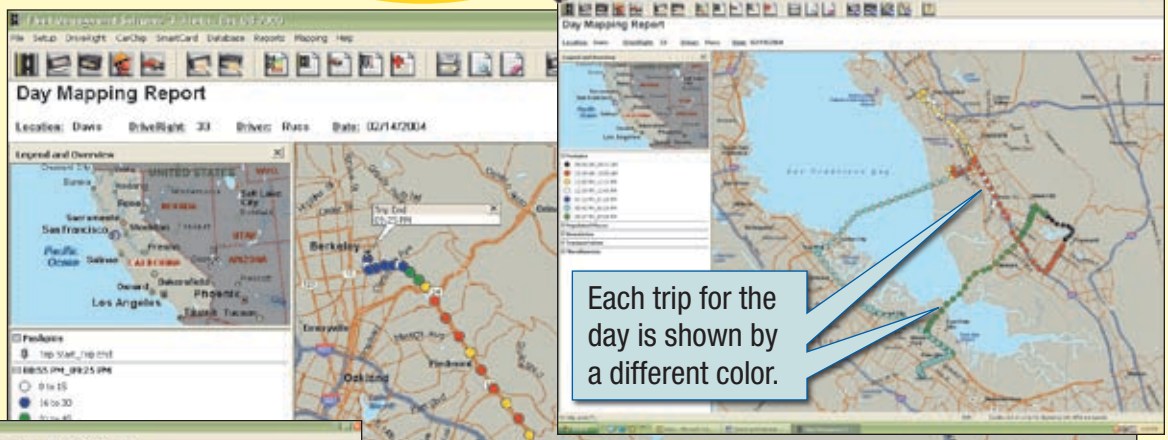
- Plug the GPS/Wireless Interface Module into the DriveRight 600E console. Plug the GPS Module into the interface module. Position the antennae on the dashboard.
- Moves easily from one vehicle to another. Rotate several modules through your fleet as needed.
- May be added to DriveRight 600E at any time.
- Requires GPS/Wireless Interface Module. One interface module can be used for both GPS and Wireless Download modules.

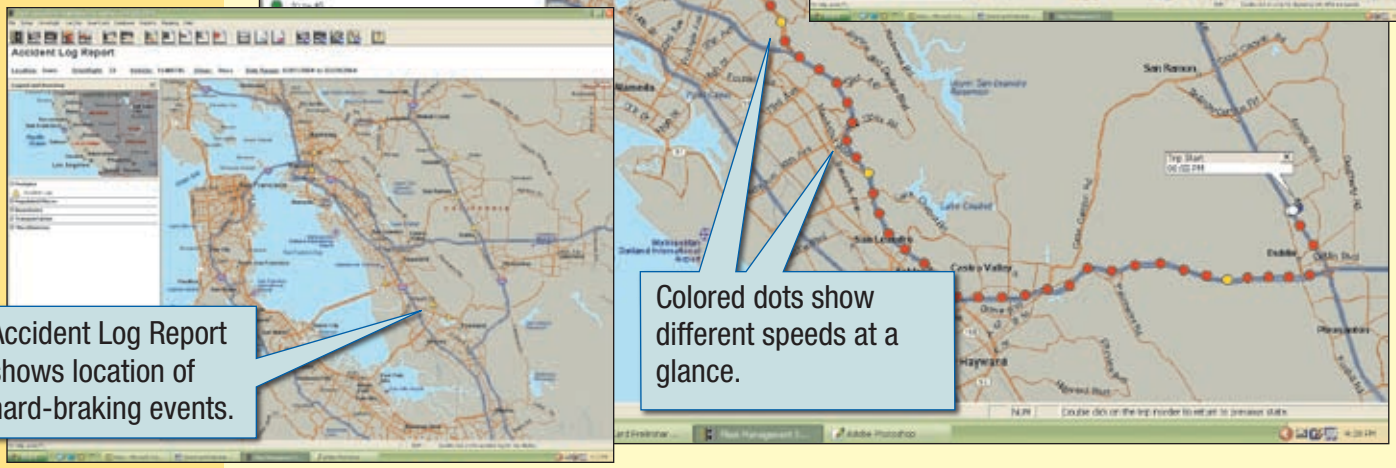


GPS Module

8127 GPS/Wireless Interface Module
8128 GPS Module for DriveRight 600E

Lower Price!




Accident Log Report
Accident Log Report shows location of hard-braking events.
Colored dots show different speeds at a glance.

Screens created using Microsoft MapPoint (sold separately). Actual screens will vary.

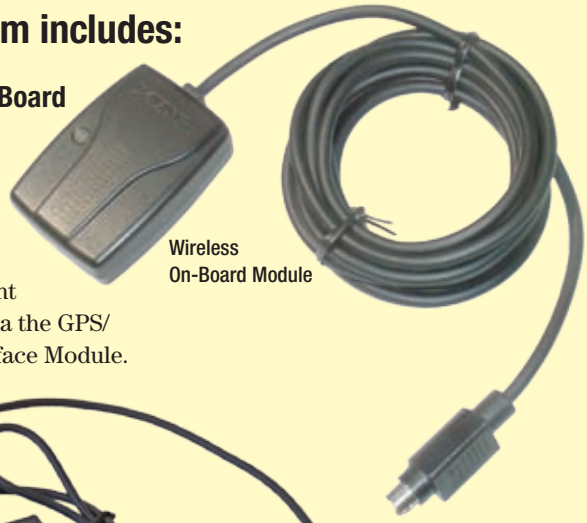
New DriveRight Wireless System Makes Data Download Effortless

Take all the trouble out of downloading driving data to your company PC. With the Wireless Download System, drivers just pull into your parking lot and their data is sent automatically to the PC. Drivers don't have to do anything or carry anything in the vehicle — it's that simple.

The system includes:

Wireless On-Board Module

Install one in each fleet vehicle. Connects to your DriveRight 600E system via the GPS/ Wireless Interface Module.



Wireless On-Board Module

GPS/Wireless Interface Module

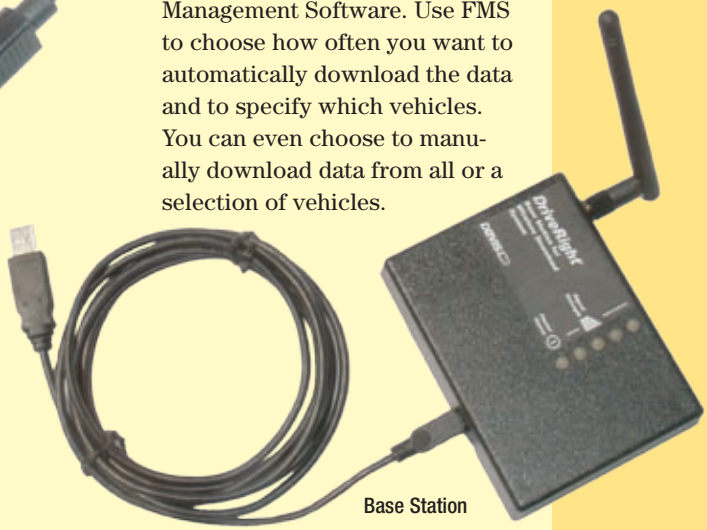
Required for either GPS Module or Wireless On-Board Module (or both)!

GPS/Wireless Interface Module

Installs in each vehicle to connect to either the Wireless On-Board Module, the GPS Module, or both modules.

Base Station for Wireless Download System

Installs in the parking lot and receives wireless transmission from each vehicle as it enters the parking lot. Each Base Station has a 600-foot free range, so larger lots will require additional Base Stations. The Base Station then automatically transmits the data to a computer via USB port running DriveRight Fleet Management Software. Use FMS to choose how often you want to automatically download the data and to specify which vehicles. You can even choose to manually download data from all or a selection of vehicles.



Base Station

Typical installation of Wireless On-Board Module.

Configuration Cable for Wireless On-Board Module

Connects to your PC, via USB port, to configure your computer and prepare the Wireless On-Board Modules for initial use. (Use the same adapter for your entire fleet.)

Configuration Cable for Wireless On-Board Module

8127 GPS/Wireless Interface Module
8129 Wireless On-Board Module
8130 Base Station for Wireless Download System
8131 Configuration Cable for Wireless On-Board Module

For your fleet:

1. One Wireless On-Board Module for each vehicle.
2. One GPS/Wireless Interface Module for each vehicle. (GPS Module can also be connected to the same interface module.)
3. Enough Base Stations to cover the parking area.
4. One Configuration Cable for the entire fleet.

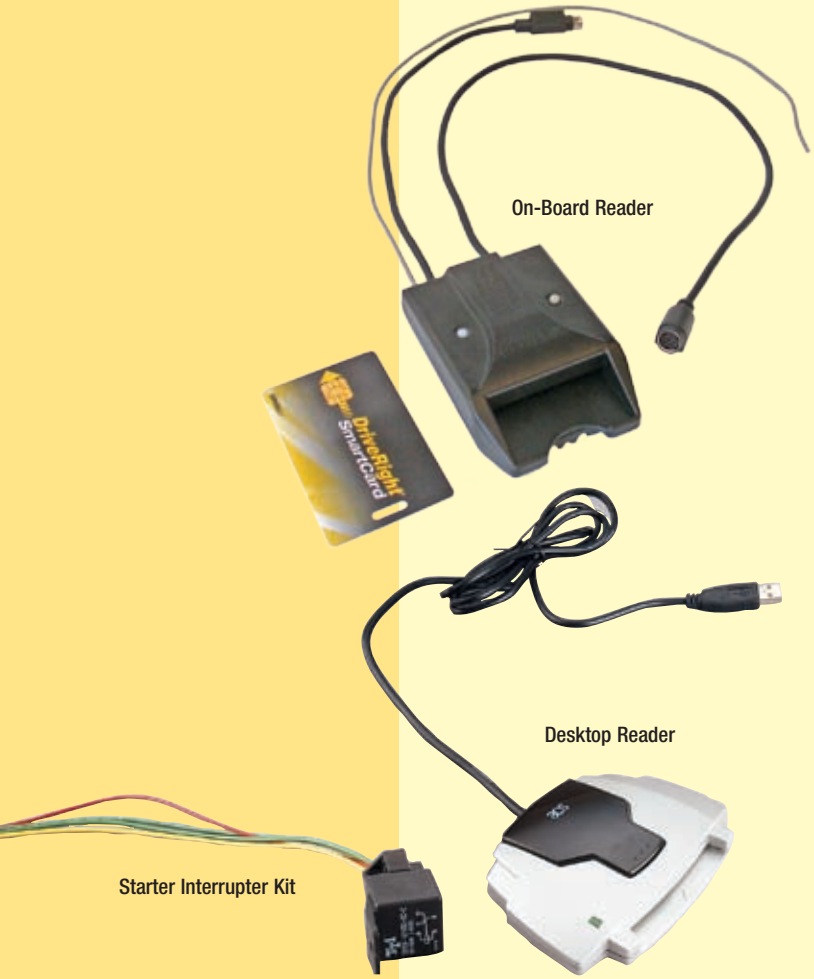
For your fleet:

1. **On-Board Reader.** One per vehicle.
2. **Starter Interrupter.** One per vehicle (optional).
3. **Desktop Reader.** One per PC data download station.
4. **Extra SmartCards.** As many as needed for replacements, spares, and pool vehicles.

SmartCard Gives Managers Enhanced Control & Security; Easy Download

In many fleets, control of who is driving which vehicle when is an important managerial duty. With SmartCard, fleet managers can authenticate driver identity, simplify administrative tasks, and download driving data. With optional Starter Interrupter kit, managers can control which vehicles can be started by which drivers.

Credit card-size card stays with the driver.



DriveRight SmartCard System

To use the system, the driver inserts his SmartCard into the On-Board Reader before starting the vehicle. The driver's ID will automatically be relayed to the console for authentication. At the end of the trip, he simply presses a button, and the driving data is automatically downloaded onto the SmartCard.

Back at the office, fleet managers can quickly and easily download the data into their PC using the Desktop Reader. They can also create administrative SmartCards to apply limits, thresholds, and authorizations to the DriveRight consoles—all without ever removing them from the vehicles.

The SmartCard System consists of four parts:

- **A SmartCard** for each driver. Available in packs of ten, the SmartCard can be worn on a lanyard, clipped to a belt, or carried in a wallet.
- An **On-Board Reader** for each vehicle, to be connected to the DriveRight 600E console inside the vehicle. Includes one SmartCard.
- An optional **Starter Interrupter Kit** for each vehicle, to ensure that it can be started by designated drivers only.
- A **Desktop Reader** connected to the USB port on your PC back at the office, to be used in conjunction with the Fleet Management Software.

8105 SmartCard On-Board Reader
8108 SmartCard Desktop Reader
8112 SmartCards, Pack of 10
8116 Starter Interrupter

Lower Prices!

This system is compatible with DriveRight 600E and DriveRight 600. Not compatible with DriveRight 500 or earlier models.

Actual size.

Plugs instantly and unobtrusively into the OBDII port in your car or truck.

A Simple and Inexpensive Option for Fleet Management

What if you could read your car's mind—simply and inexpensively?

With CarChip Fleet, knowing what is going on behind the wheel and under the hood is as simple as "plug-and-go." Just plug the tiny data logger into the vehicle's on-board diagnostic port (OBDII), and begin recording trip time and date, speed, distance, accelerations, and decelerations immediately.

- Stores up to 300 hours of driving data, depending on the logging interval. After 300 hours new data overwrites oldest data.
- Accident log records the last 20 seconds of speed before a complete stop.
- CarChip Fleet with Alarm also provides an audible alarm to warn drivers whenever they exceed a speed, acceleration, or deceleration limit.

Engine performance logging and troubleshooting.

- Monitors any 4 out of 23 selectable engine parameters, including RPM, at intervals of 5 to 60 seconds.
- Logs diagnostic trouble codes and "freeze-frame" readings that show the status of various engine parameters at the time.
- After reviewing the trouble code, managers can quickly and easily set CarChip to turn the "check engine" light off.

Easy to use, inconspicuous, and inexpensive.

- A single CarChip data logger can be switched between vehicles or drivers as needed.
- Downloads quickly and easily to our Fleet Management Software (sold separately) for sorting, analyzing, and e-mailing data.

Offers fleet managers the flexibility they need.

- Use CarChip Fleet in some fleet vehicles, DriveRight 600E in others—our Fleet Management Software supports both.
- Requires only one software package per location, making it easy to download and track driving data, no matter which system your drivers are using.

Like DriveRight 600E, CarChip Fleet provides drivers an incentive to focus on safe driving, and gives managers the ability to assess and reward their efforts. CarChip's ease of use and additional engine performance logging make it a valuable addition to your fleet management program.

8241 CarChip Fleet
8245 CarChip Fleet with Alarm

Engine Performance

Monitors any 4 selectable engine parameters including

- RPM
- Throttle Position
- Engine Load
- Coolant Temperature
- Intake Manifold Pressure
- Air Flow Rate
- Intake Air Temperature
- Timing Advance
- Fuel Pressure
- Fuel System Status
- Short- and Long-Term Fuel Trim
- Oxygen Sensor Output Voltage
- Battery Voltage

The information you need at a glance

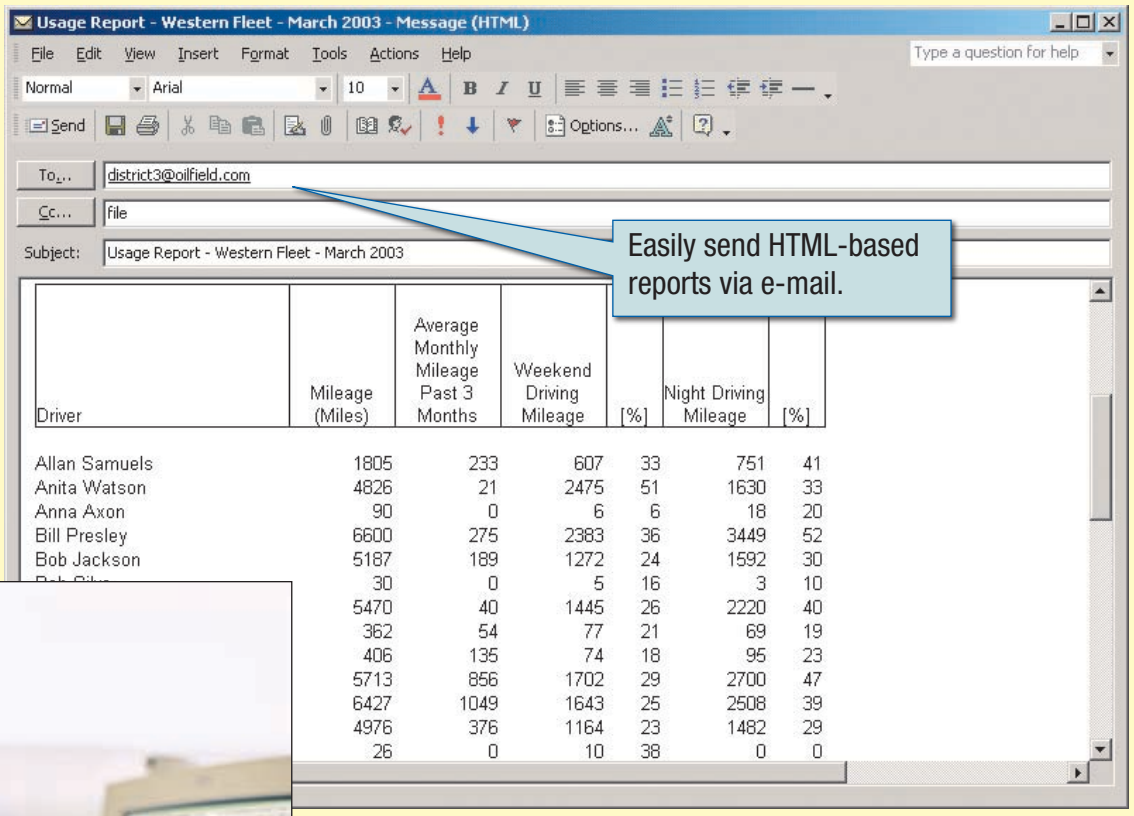
- Track and compare drivers and vehicles by fleet, group, or location.
- View, print, and save accident logs.
- Protect data with multiple password levels and tamper logs.
- Sort data and create reports according to selected criteria.
- Summarize data by day, week, or longer date ranges.

Thoughtful Reports, Flexible Connectivity

DriveRight's Fleet Management Software allows your computer to work where "the rubber meets the road"—without it ever going along for a ride.

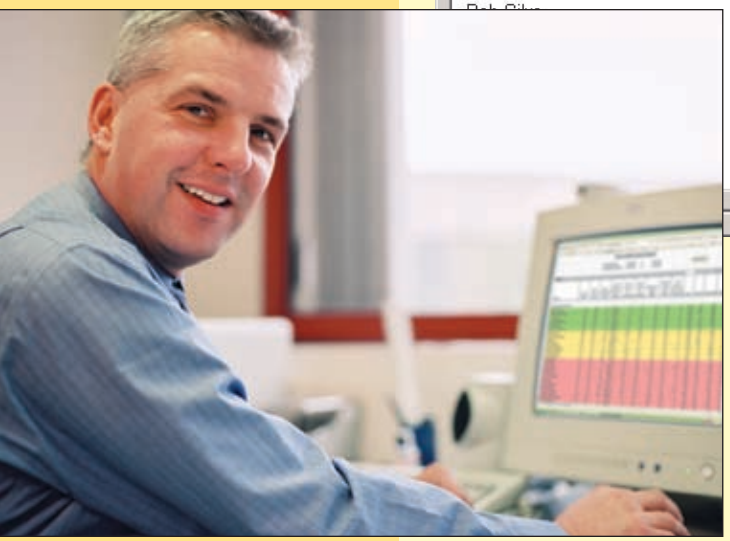
- Strong reporting and an intuitive interface deliver information in a timely and understandable manner.
- Reports are summarized to give the manager the information needed at a glance.
- More detailed reports, such as exception reports, allow customized tracking of vehicle use and specific driver behavior.
- Powerful ODBC (Open Database Connectivity) compliant design lets you choose the database platform, including Microsoft Access, SQL Server, MySQL, Oracle 8i and 9i, and others.
- Intelligent archiving allows the manager to keep relevant data active while keeping the past safely stored.
- Flexible in acquiring and sharing data. In addition to support for wireless, remote, or Palm downloading, data can be shuttled via FTP; equally comfortable on a single computer or a network server.
- Generates HTML-based reports via the built-in e-mail utility or for posting on any web server.

8186 Fleet Management Software


Usage Report - Western Fleet - March 2003 - Message (HTML)
File Edit View Insert Format Tools Actions Help
Type a question for help
Normal Arial 10
Send Options...
To... district3@oilfield.com
Cc... file
Subject: Usage Report - Western Fleet - March 2003
Easily send HTML-based reports via e-mail.

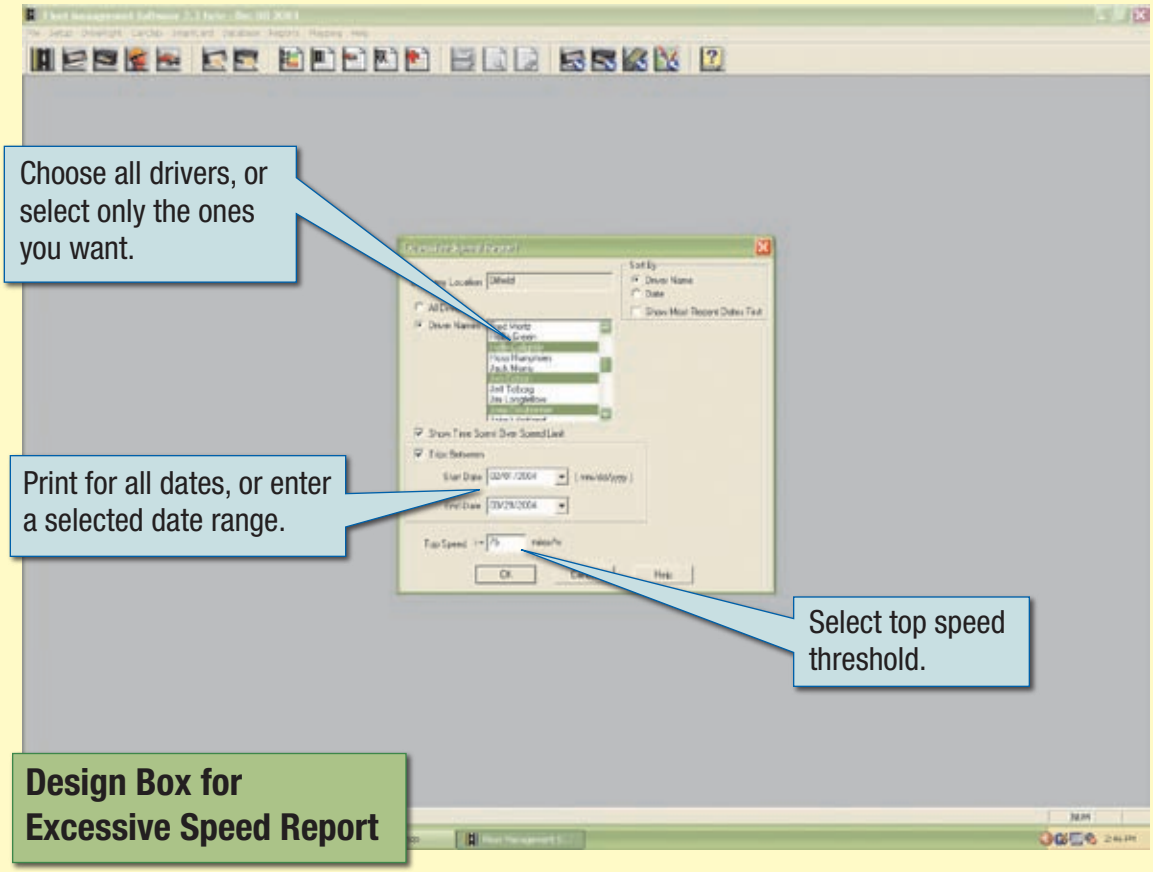
Driver	Mileage (Miles)	Average Monthly Mileage Past 3 Months	Weekend Driving Mileage	[%]	Night Driving Mileage	[%]
Allan Samuels	1805	233	607	33	751	41
Anita Watson	4826	21	2475	51	1630	33
Anna Axon	90	0	6	6	18	20
Bill Presley	6600	275	2383	36	3449	52
Bob Jackson	5187	189	1272	24	1592	30
	30	0	5	16	3	10
	5470	40	1445	26	2220	40
	362	54	77	21	69	19
	406	135	74	18	95	23
	5713	856	1702	29	2700	47
	6427	1049	1643	25	2508	39
	4976	376	1164	23	1482	29
	26	0	10	38	0	0

Actual screens may vary.

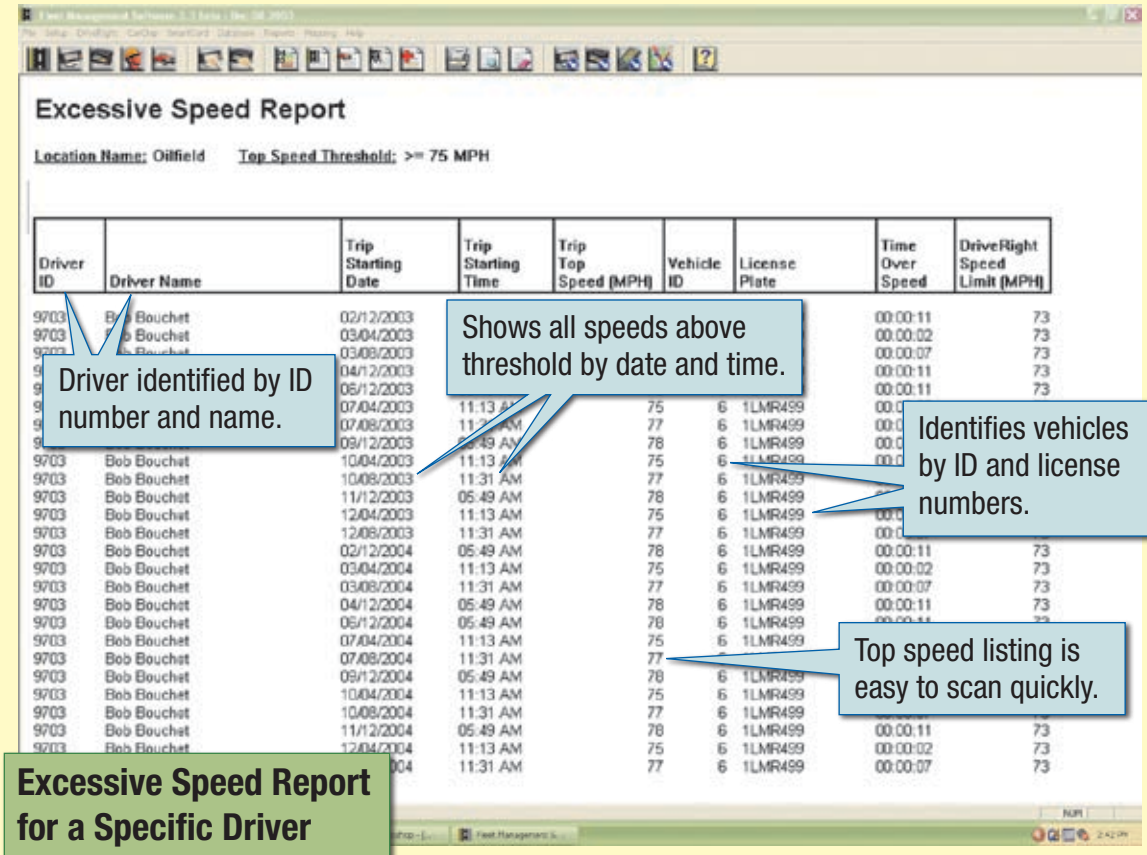


Includes software on CD, serial cable and power adapter for downloading DriveRight, and USB cable for downloading CarChip. Requires Windows 98SE, ME, NT4.0, XP, or 2000. Requires one free serial port if downloading directly from DriveRight 600E console. To download DriveRight via USB, add our Wireless Download System (page 7), SmartCard System (page 8), or our optional USB-to-Serial (DB9) cable.

8434 USB-to-Serial Cable for DriveRight


Choose all drivers, or select only the ones you want.
Print for all dates, or enter a selected date range.
Select top speed threshold.

Design Box for Excessive Speed Report


Excessive Speed Report
Location Name: Oilfield
Top Speed Threshold: >= 75 MPH
Driver identified by ID number and name.
Shows all speeds above threshold by date and time.
Identifies vehicles by ID and license numbers.
Top speed listing is easy to scan quickly.

Driver ID	Driver Name	Trip Starting Date	Trip Starting Time	Trip Top Speed (MPH)	Vehicle ID	License Plate	Time Over Speed	DriveRight Speed Limit (MPH)
9703	Bob Bouchet	02/12/2003					00:00:11	73
9703	Bob Bouchet	03/04/2003					00:00:02	73
9703	Bob Bouchet	03/08/2003					00:00:07	73
9703	Bob Bouchet	04/12/2003					00:00:11	73
9703	Bob Bouchet	06/12/2003					00:00:11	73
9703	Bob Bouchet	07/04/2003	11:13 AM	75	6	1LMR499	00:0	
9703	Bob Bouchet	07/08/2003	11:31 AM	77	6	1LMR499	00:0	
9703	Bob Bouchet	09/12/2003	05:49 AM	78	6	1LMR499	00:0	
9703	Bob Bouchet	10/04/2003	11:13 AM	75	6	1LMR499	00:0	
9703	Bob Bouchet	10/08/2003	11:31 AM	77	6	1LMR499	00:0	
9703	Bob Bouchet	11/12/2003	05:49 AM	78	6	1LMR499	00:0	
9703	Bob Bouchet	12/04/2003	11:13 AM	75	6	1LMR499	00:0	
9703	Bob Bouchet	12/08/2003	11:31 AM	77	6	1LMR499	00:0	
9703	Bob Bouchet	02/12/2004	05:49 AM	78	6	1LMR499	00:00:11	73
9703	Bob Bouchet	03/04/2004	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	03/08/2004	11:31 AM	77	6	1LMR499	00:00:07	73
9703	Bob Bouchet	04/12/2004	05:49 AM	78	6	1LMR499	00:00:11	73
9703	Bob Bouchet	06/12/2004	05:49 AM	78	6	1LMR499	00:0	
9703	Bob Bouchet	07/04/2004	11:13 AM	75	6	1LMR499	00:0	
9703	Bob Bouchet	07/08/2004	11:31 AM	77	6	1LMR499	00:0	
9703	Bob Bouchet	09/12/2004	05:49 AM	78	6	1LMR499	00:0	
9703	Bob Bouchet	10/04/2004	11:13 AM	75	6	1LMR499	00:0	
9703	Bob Bouchet	10/08/2004	11:31 AM	77	6	1LMR499	00:0	
9703	Bob Bouchet	11/12/2004	05:49 AM	78	6	1LMR499	00:00:11	73
9703	Bob Bouchet	12/04/2004	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	004	11:31 AM	77	6	1LMR499	00:00:07	73

Excessive Speed Report for a Specific Driver

Actual screens may vary.

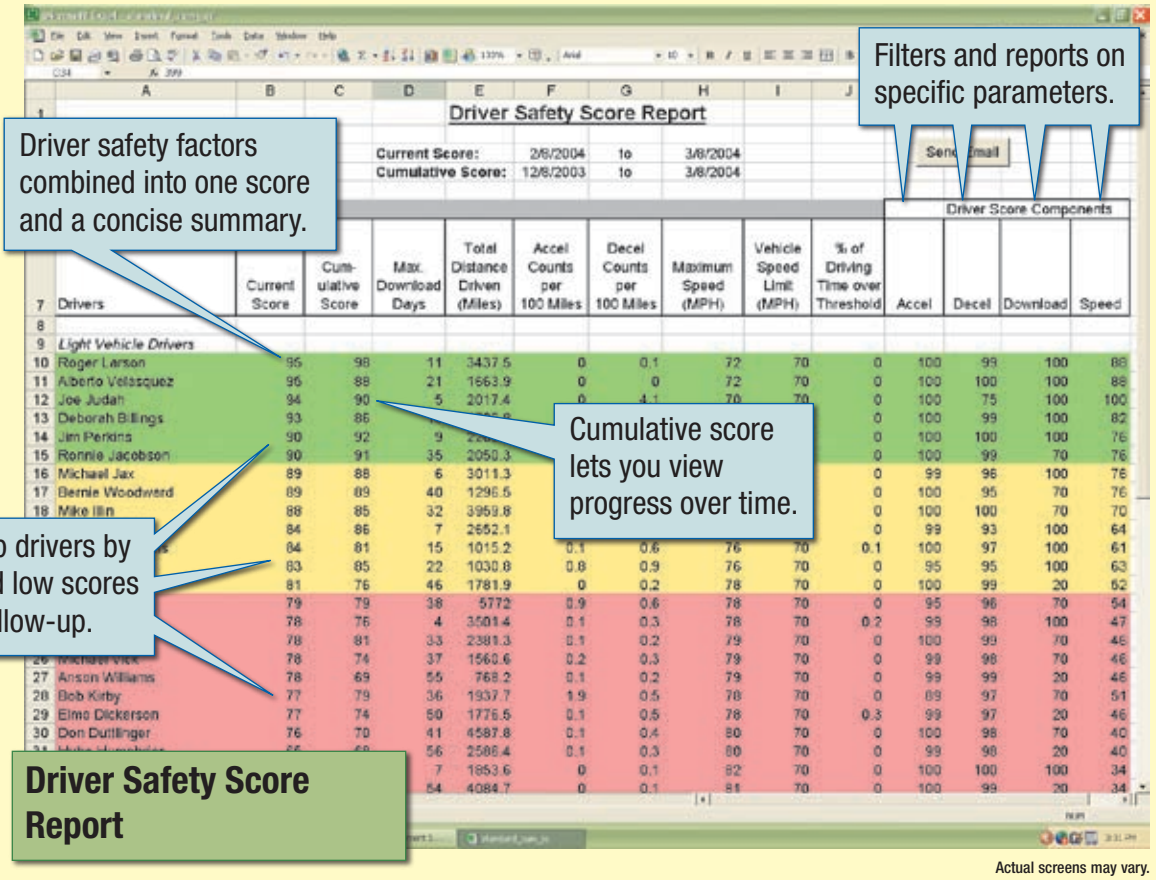
DriveRight has allowed us to meet our vehicle safety goals by controlling and changing the driving behavior of our drivers. Drivers know very well how DriveRight works. The alarm in the DriveRight is set "on" so the driver is aware of every mistake on the road. And no accidents mean time and money savings.

— Fleet Manager, Houston, TX

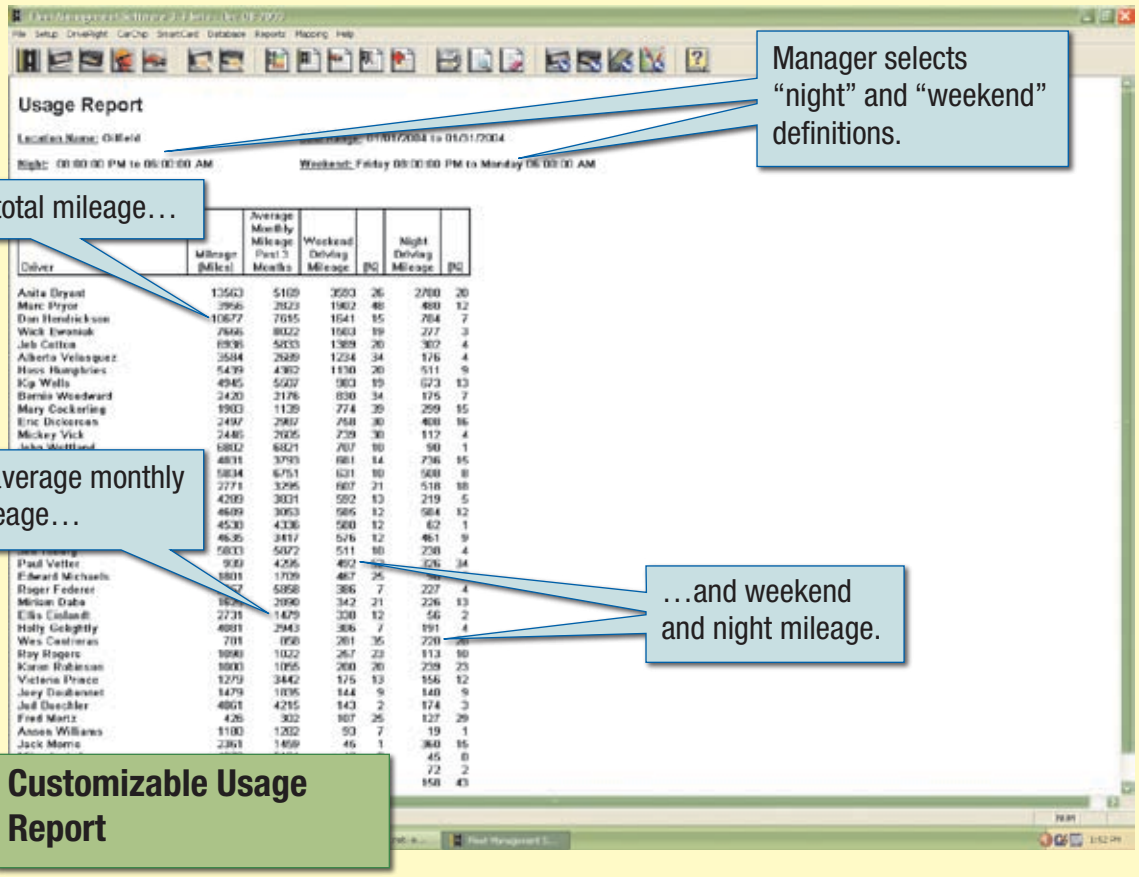
Powerful Reports for Information at a Glance

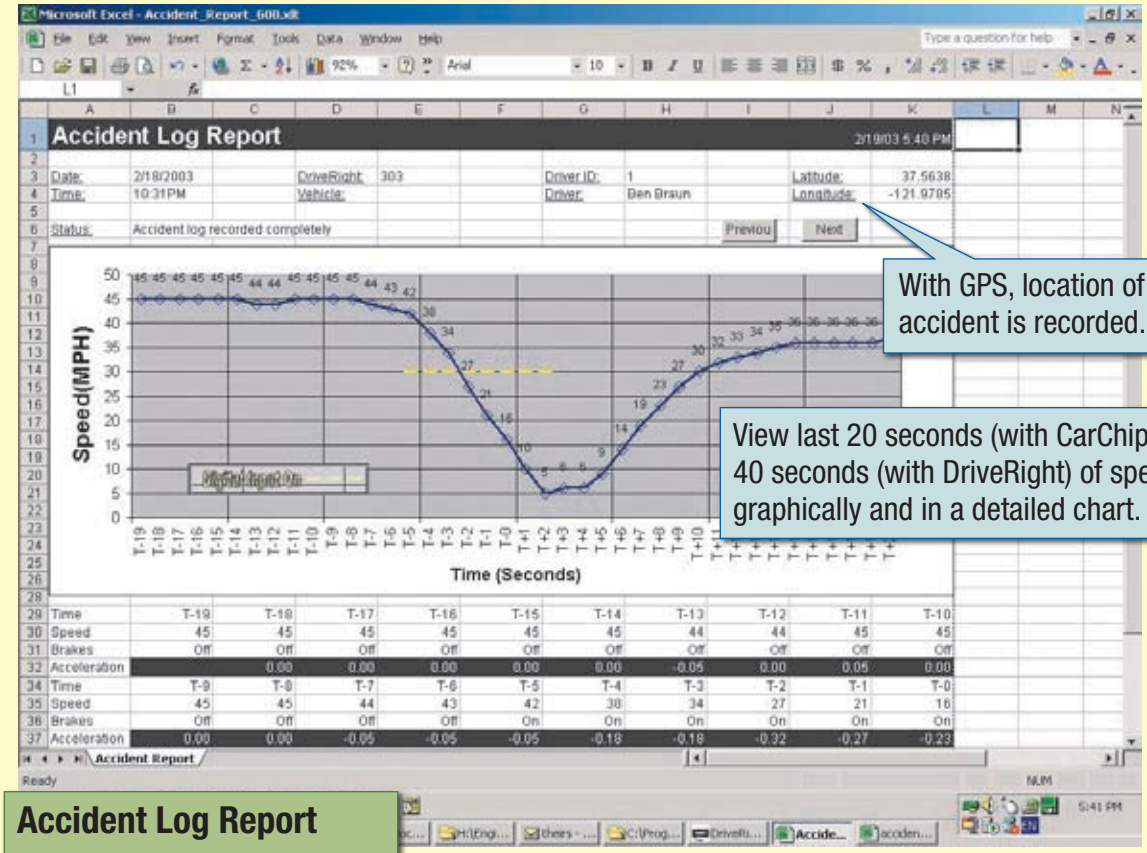
Congratulations on producing DriveRight to monitor driving habits. DriveRight is truly a safety device, which not only helps protect lives and property but also helps make driving enjoyable.

— Fleet Electronic Technician, Port-Harcourt, Nigeria



Actual screens may vary.



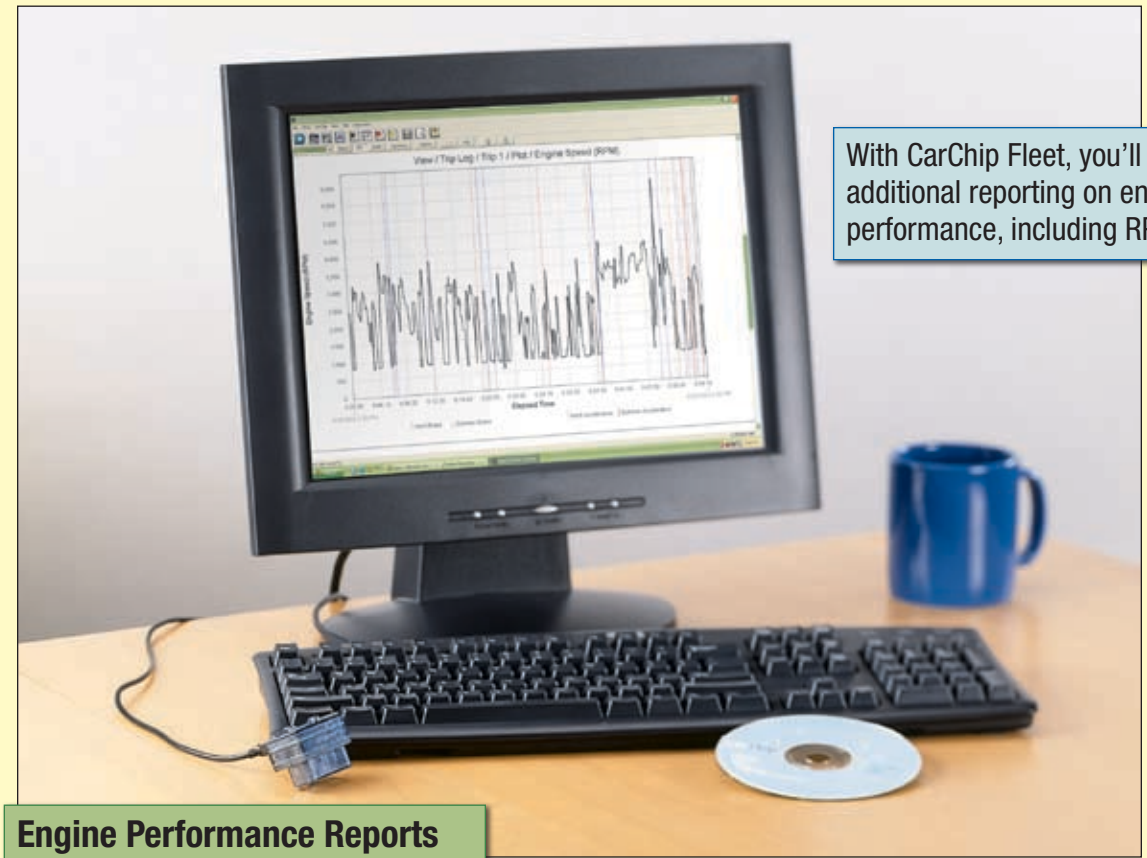


With GPS, location of accident is recorded.

View last 20 seconds (with CarChip) or 40 seconds (with DriveRight) of speed, graphically and in a detailed chart.

Accident Log Report

Report generated using the included Microsoft Excel template.



With CarChip Fleet, you'll also get additional reporting on engine performance, including RPM.

Engine Performance Reports

In the first year of using DriveRight, our company achieved its goal. Over the two-year period, corporate officials reported zero accidents.

—Fleet Operations Manager, Hassi Messaoud, Algeria

Warranty

We warrant our products to be free of defects in material and workmanship for one year from the date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective, or damaged.

If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option, either repair or replace the product free of charge. This warranty does not cover damage due to improper installation or use, negligence, accident, or unauthorized service, or to incidental or consequential damages beyond the Davis products themselves. Implied warranties are limited in duration to the life of this limited warranty.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights. You may have other rights, which vary from state to state and country to country.

Important Safety Notice

CarChip and DriveRight OBD have been carefully designed and tested to comply with the OBDII protocols used on vehicles sold in the USA, model-year 1996 or later. However, some vehicle models are not in full compliance with these protocols. In addition, the computer control systems on any given vehicle may be malfunctioning or out of spec, as may be the sensors used by these systems.

Before installing CarChip or DriveRight OBD, be sure to review the list of known exclusions on our website at www.carchip.com, where you'll also find the latest software and firmware downloads. For an in-depth discussion of OBDII anomalies, we recommend The Equipment and Tool Institute's website at www.etools.org.

While our testing and the experience of thousands of CarChip and DriveRight OBD users have shown the units to be safe and reliable, there is an inherent risk in adding any aftermarket product that may potentially affect the operation or drivability of your vehicle. Should you be concerned about the operation of your vehicle at any time while using any of our products, you should pull over, off the roadway, immediately or as soon as it is safe to do so. Remove the unit from the OBDII port, and consult a licensed mechanic or automobile service center.

Report any issues or concerns to our Technical Support Department at (510) 732-7814 or support@davisnet.com. We are open Monday through Friday, 7:00 a.m. to 5:30 p.m. Pacific Time. We maintain an active database of the feedback we receive, and your comments can help us continuously improve the product.

Additional Data Transfer Options

Remote Download Kit

Allows drivers to download data remotely by connecting the DriveRight 600E console directly to an external modem. Ideal for fleets that are spread out over large areas. When the modem dials into a computer running the Fleet Software in a special hosting mode, the data will be transferred automatically.

8188 Remote Download Kit

Remote Download Kit

Palm Download Kit

Allows you to download data from a DriveRight 600E console to a Palm Pilot via an interface cable. No need to remove the console from the vehicle. Even the basic Palms have enough memory to hold data for dozens of vehicles, allowing one person to quickly capture an entire fleet's information. The data can then be downloaded into your PC using a single Fleet Management Software menu selection.

8181 Palm Download Kit

Palm Download Kit

Accessories

Extra Display Console

When several drivers share vehicles, give each driver his own display console to keep all his data in one place. Lithium battery included.

8179 Extra Display Console for DriveRight 600E

Display Console

Tension Tool for Stainless Steel Tie

For use with DriveRight 600E Heavy Duty. Tension Tool is a screwdriver-type tightening tool that allows the installer to tighten the stainless-steel heavy-duty strap. The Deluxe Tension Tool is a ratcheting device and will provide extra efficiency for multiple installations.

8196 Tension Tool for Stainless Steel Tie

8195 Deluxe Tension Tool for Stainless Steel Tie

Tension Tool

USB to Serial Cable

No serial port on your computer? You can still use Fleet Management Software with this adapter cable.

8434 USB to Serial (DB9) Cable

Deluxe Tension Tool

Extra Installation Kits

For information on which installation is right for your fleet, see page 5.

The perfect solution if you want to use one DriveRight 600E display console in multiple vehicles. Each installation kit includes a manual and the parts necessary to outfit a vehicle for a DriveRight console.

The General-Duty Kit can mount on any vehicle, and is sufficient for most cars and light duty vans and pickup trucks.

The Heavy-Duty Kit contains upgraded mounting hardware and longer wires for harsher conditions. It can be mounted on any vehicle, and is designed to handle the needs of large trucks, busses and off-road vehicles. Note: Use of a tension tool is recommended during installation.

The VSS Kit delivers a speed reading by tapping the vehicle's existing vehicle speed sensor signal. (Please check to ensure that the vehicle has a VSS signal, since not all models do.) Because there is no exposed sensor, this method works especially well for off-road vehicles.

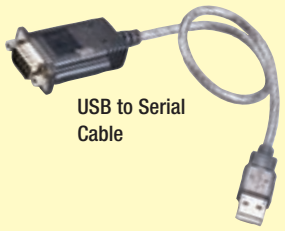
The OBD Kit includes the sensors and installation hardware needed to install DriveRight 600 in vehicles with an OBDII port found on passenger cars, model-year 1996 and later.

8160GD General-Duty Installation Kit

8160HD Heavy-Duty Installation Kit

8160VSS VSS Installation Kit

8160OBD OBDII Installation Kit



USB to Serial Cable

CarChip® and DriveRight® 600E			8241 & 8186 **CarChip Fleet** with Fleet Management Software	8245 & 8186 **CarChip Fleet with Alarm** with Fleet Management Software	8126 **DriveRight 600E**	8126 & 8186 **DriveRight 600E** with Fleet Management Software
FEATURES & OPTIONS	**List Price**	Data logger or on-board display console				
		Software (requires just one software pkg per fleet)			n/a	
	Installation	Installs using	OBDII connector	OBDII connector	OBDII, VSS, driveshaft, or CV joint	OBDII, VSS, driveshaft, or CV joint
		For model years	1996 and later	1996 and later	Any	Any
		For cars, vans, and pickup trucks	●	●	●	●
		For large trucks, off-road vehicles, & busses			●	●
		Professional installation recommended			●	●
		Estimated installation time	15 seconds	15 seconds	1–2 hours	1–2 hours
	Download to Computer	Wireless				●
		Using included USB cable	●	●		
		Using included serial cable				●
		Via modem using optional kit				●
		Via Palm Pilot using optional kit				●
		Via SmartCard using optional kit				●
	Maximum	Number of trips	no limit	no limit	600 trips	600 trips
		Hours of driving time	300 hours *	300 hours *	435 hours	435 hours
	Backup Battery	Battery type	Internal	Internal	3-volt lithium	3-volt lithium
		Expected battery life if unit not in vehicle	10–15 years	10–15 years	2 months	2 months
		Expected battery life under normal usage	10–15 years	10–15 years	3–5 years	3–5 years
DRIVER PERFORMANCE	**Acceleration & Deceleration**	Hard accelerations	●	●	●	●
		On-board alarm for hard accelerations		●	●	●
		Hard decelerations	●	●	●	●
		On-board alarm for hard decelerations		●	●	●
	Accident Log	After hard deceleration, speed every second for the last 20 seconds before a complete stop.	●	●		
		Speed every second for 20 seconds before and 20 seconds after hard deceleration.				●
	Distance	Distance traveled per trip	●	●	●	●
	GPS	Optional GPS position logging				●
	Trip Time	Start and end time	●	●	●	●
		Total time in motion	●	●	●	●
		Idle time	●	●		
		Weekend/night driving time	●	●		●
	Trip Type	Toggle trip type (business or personal)			●	●
	Speed	Recording interval	Fixed 5 seconds	Fixed 5 seconds	Selectable 1–30 sec	Selectable 1–30 sec
		Top speed	●	●	●	●
		Average speed	●	●	●	●
		Time over user-set speed limit	●	●	●	●
		Time spent within user-set speed ranges	●	●		●
		On-board alarm for high speed		●	●	●
	Seatbelt Use	If selected as one of two digital inputs				●
ENGINE	Diagnostic trouble code with "freeze-frame" sensor readings		●	●		
	Ability to reset "check engine" light		●	●		
	Logging of user-selectable engine parameters ★		●	●		
SECURITY	PIN code to adjust settings		●	●	●	●
	Driver ID code				●	●
	Tamper indicator on display console				●	●
	Tamper log may be viewed in software		●	●		●
	Vehicle login code restrictions					●

Which system is right for your fleet?

DriveRight 600E:

- Best for vehicle pools with multiple drivers, or for fleets of vehicles without OBDII ports.
- Ride-along console provides feedback for driver and records trip details. Add-on features allow for GPS, OBD installation, SmartCard security, heavy-duty installation, and wireless, Palm, or remote data transmission.

CarChip Fleet:

- Simple installation. Best for fleets that have OBDII ports and where GPS and driver ID verification are not required.
- CarChip provides engine performance data and troubleshooting, in addition to trip data. Alarm option available.

★ Any 4 out of 23 possible, including RPM, throttle position, engine load, fuel pressure, fuel system status, short-term fuel trim, long-term fuel trim, battery voltage, timing advance, coolant temperature, air flow rate, intake air temperature, intake manifold pressure, and oxygen sensor voltage.

* 300 hours maximum. Actual storage time depends on logging internal and number of parameters selected.

Davis Instruments
3465 Diablo Avenue, Hayward, CA 94545-2778
FORWARDING SERVICE REQUESTED

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